

# INTERNATIONAL SEARCH REPORT

International application No.  
PCT/CA2004/001757

## A. CLASSIFICATION OF SUBJECT MATTER

IPC(7): C12Q-1/68; G01N-33/53; G01N-33/554; C07K-1/10; C12P-21/00

## B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC(7): C12Q-1/68; G01N; C07K-1/10; C12P-21/00

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic database(s) consulted during the international search (name of database(s) and, where practicable, search terms used)

Delphion; Espacenet; Biosis, Caplus, Biotechabs; NCBI Pub-Med; Keywords: aptamer(s); SELEX; (in) situ; (protein, peptide, epitope) tag;

## C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No(s).
Y	WO 98 26094 A1 (JARVIK, J.W. (US)) 18 June 1998 - page 7, lines 7-13; Example 6	1-6, 9, 11-23, 26, 28-48, 52-54
Y	WO 91 19813 A1 (UNIVERSITY OF COLORADO FOUNDATION, INC (US)) 26 December 1991 - page 54, lines 16-23	41-48, 52-54

☒ Further documents are listed in the continuation of Box C.

☐ See patent family annex.

* "A" Special categories of cited documents : document defining the general state of the art which is not considered to be of particular relevance	"T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention
"E" earlier application or patent but published on or after the international filing date	"X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone
"L" document which may throw doubt on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)	"Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art
"O" document referring to an oral disclosure, use, exhibition or other means	"&" document member of the same patent family
"P" document published prior to the international filing date but later than the priority date claimed	

Date of the actual completion of the international search  
21 January 2005 (2005-01-21)

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## C (Continuation). DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No(s).
Y	BLANK, M. et al. Systemic evolution of a DNA aptamer binding to rat brain tumor microvessels. Journal of Biological Chemistry, May 11, 2001, Vol.276, No.19, pages 16464-16468, ISSN 0021-9258. - Figure 4; p. 16466, 2 <sup>nd</sup> column - p.16467, 2 <sup>nd</sup> column - cited in the application	1-6, 9, 11-23, 26, 28-48, 52-54
Y	TERPE, K. Overview of tag protein fusions: from molecular and biochemical fundamentals to commercial systems. Appl. Microbiol. Biotechnol., January 2003, Vol. 60, No.5, pages 523-533, ISSN 0175-7598. - cited in the application	41-48, 52-54
T	DELLAIRE, G. et al. <i>In situ</i> imaging and isolation of proteins using dsDNA oligonucleotides. Nucleic Acids Research, November 2004, Vol.32, No.20, pages e165/1 - e165/10, ISSN 0305-1048.	1-54
A	JAYASENA, S.D. Aptamers: An emerging class of molecules that rival antibodies in diagnosis. Clinical Chemistry, September 1999, Vol. 45, No.9, pages 1628-1650, ISSN 0009-9147. - cited in the application	1-54
A	STANLIS, K.K.M. and McINTOSH, J.R. Single-strand DNA aptamers as probes for protein localization in cells. J Histochem Cytochem, June 2003, Vol. 51, No.6, pages 797-808, ISSN 0022-1554. - cited in the application	1-54

**INTERNATIONAL SEARCH REPORT**  
Information on patent family members

International application No.  
PCT/CA2004/001757

Patent document cited		Publication date	Patent family member(s)	Publication date
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			IE 911979 A1	1991-12-18
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			NZ 238492 A	1993-07-27
			RU 2198931 C2	2003-02-20
			US 5475096 A	1995-12-12